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HIGH STRENGTH GALVANIZED STEEL SHEET AND PRODUCTION METHOD THEREFOR

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Abstract of **JP2002256386**

PROBLEM TO BE SOLVED: To provide a high strength galvanized steel sheet which is not fractured in the HAZ(heat affected zone) of the weld zone on forming and has formability similar to that of a single sheet. **SOLUTION:** The high strength galvanized steel sheet contains, as chemical components, 0.04 to 0.25% C, $\leq 0.7\%$ Si, 1.4 to 3.5% Mn, 0.05 to 1% Cr, $\leq 0.05\%$ P, $\leq 0.01\%$ S and 0.005 to 0.1% Nb and the balance substantially iron. The steel sheet also has a composite structure consisting of ferrite and a low temperature transformation phase having a mean grain size of $\leq 10 \mu\text{m}$. The steel sheet can contain one or more elements selected from 0.05 to 1% Mo, 0.02 to 0.5% V, 0.005 to 0.05% Ti and 0.0002 to 0.002% B as well.